

NCERT

Solutions

PHYSICS

Chapter 3 Heat

Class
7



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Chapter – 3

Heat

Exercise

1. State few similarities and differences between the laboratory thermometer and the clinical thermometer.

Answer:

The similarities between the laboratory thermometer and clinical thermometer are as follows:

- (i) Mercury is used in laboratory thermometer as well as in clinical thermometer.
- (ii) Both the thermometer consists of a long, narrow tube of glass.

The differences between the laboratory thermometer as well as clinical temperature are as follows:

- (i) The least count of both the temperature differs.
- (ii) The range of the temperature used in a laboratory thermometer is high from -100°C to 1100°C whereas, in case of the clinical thermometer, the range is 35°C to 42°C .
- (iii) Clinical thermometer is used to measure body temperature however laboratory thermometer is not used for the purpose of measuring body temperature.

2. Give any two examples each of conductors and insulators of heat.

Answer:

Conductors are the materials which can allow heat to pass through them whereas insulators doesn't allow heat to pass through them. The examples of conductors are: Aluminium, Iron and Copper. The examples of insulators are wood and plastic.

3. Fill in the blanks:

- a. The hotness of an object is determined by its _____.
- b. Temperature of boiling water cannot be measured by _____ thermometer.
- c. Temperature is measured in degree _____.
- d. No medium is required for transfer of heat by the process of _____.
- e. A cold steel spoon is dipped in a cup of hot milk. It transfers heat to its other end by the process of _____.
- f. Clothes of _____ colours absorb heat better than clothes of light colours.

Answer:

- a. The hotness of an object is determined by its temperature.

The more is the Temperature of object, the more it will be hot and lesser the temperature of object, lesser will be hotness.

- b. Temperature of boiling water cannot be measured by clinical temperature.

Because the range of clinical temperature (35°C to 42°C) is less and the temperature of boiling water is high. So, it can't be measured using clinical temperature.

- c. Temperature is measured in unit Celsius.

The temperature is measured with the help of Celsius scale and the symbol is indicated by $^{\circ}\text{C}$.

- d. No medium is required for transfer of heat by the process of Radiation. There is no requirement of any medium to transfer heat in case of radiation.

- e. A cold steel spoon is dipped in a cup of hot milk. It transfers heat to its other end by the process of conduction

Because cold steel spoon is a body of low temperature and hot milk acts as a body of high temperature. So, there is a transfer of heat from hot milk to cold steel spoon and this process is known as conduction.

f. Clothes of dark colours absorb heat better than clothes of light colours. This is because dark colour absorbs more heat than light coloured objects as light coloured objects reflect most of the heat that falls on them.

4. Match the following:

- | | |
|--|------------|
| i. Land breeze blows during | (a) summer |
| ii. Sea breeze blow during | (b) winter |
| iii. Dark coloured clothes are preferred during | (c) day |
| iv. Light coloured clothes are preferred during. | (d) night |

Answer:

The correct match is: i (d)

Land breeze blows during night because at night the water cools down more slowly than the land, so the cool air moves towards the sea from land and is known as land breeze.

The correct match is: ii. (c)

Sea breeze blows during day because during the day the land gets heated faster than the water. The air over the land becomes hotter and then moves up. The cooler air from sea rushes in towards the land to take its place. The warm air from the land moves to sea to complete the cycle. This is known as Sea Breeze.

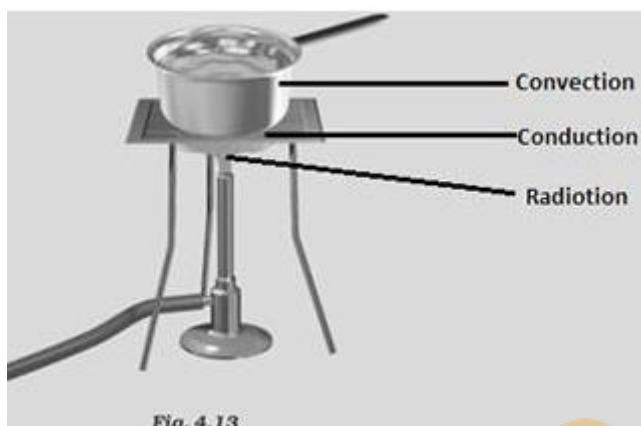
The correct match is: iii. (b)

Dark coloured clothes are preferred during winter because dark coloured objects absorb radiations better than light coloured clothes and help in keeping the body warm during winter.

The correct match is: iv. (a)

Light coloured clothes are preferred during summer because they reflect most of the radiation falling on the body and thus light coloured clothes are preferred in summers.

Since there is no requirement of any medium for transfer of heat in radiation and in conduction, there is transfer of heat between the solids and in case of liquids and gases, heat is transferred by the process of convection. The transfer of heat by different processes can be shown by the diagram as follows:



7. In places of hot climate, it is advised that the outer walls of houses be painted white. Explain.

Answer:

In places of hot climate, it is advised that the outer walls of houses be painted white because white is a light colour and more heat is reflected from the surface and there is less absorption of heat by the walls. It helps in keeping the house cool.

8. One litre of water at 30°C is mixed with one litre of water at 50°C . The temperature of the mixture will be
- 80°C
 - more than 50°C but less than 80°C
 - 20°C
 - between 30°C and 50°C

Answer:

One litre of water at 30°C is mixed with one litre of water at 50°C . The temperature of the mixture will be between 30°C and 50°C . This is because there is transferred of heat from an object with high temperature to an object having a low temperature. So, heat will flow from one litre of water at 50°C to one litre of water at 30°C . So, the temperature of the mixture will be between 30°C and 50°C .

9. An iron ball at 40°C is dropped in a mug containing water at 40°C . The heat will
- flow from iron ball to water.
 - not flow from iron ball to water or from water to iron ball.
 - flow from water to iron ball.
 - increases the temperature of both.

Answer:

An iron ball at 40°C is dropped in a mug containing water at 40°C . The heat will not flow from iron ball to water or from water to iron ball because both the objects are at same temperature and there will be no transfer of heat.

10. A wooden spoon is dipped in a cup of ice-cream. Its other end
- becomes cold by the process of conduction.
 - becomes cold by the process of convection.
 - becomes cold by the process of radiation.
 - does not become cold.

Answer:

A wooden spoon is dipped in a cup of ice-cream. Its other end does not become cold because wood is a bad conductor of heat and doesn't allow heat to pass through them and is therefore, the other end of wooden spoon will not become cold because there will be no transfer of heat.

11. Stainless steel pans are usually provided with copper bottoms. The reason for this could be that
- copper bottom makes the pan more durable.
 - such pans appear colourful.
 - copper is a better conductor of heat than the stainless steel.
 - copper is easier to clean than the stainless steel.

Answer:

Stainless steel pans are usually provided with copper bottoms. The reason for this could be that copper is a good conductor of heat and allow to pass heat through them and is therefore can easily be heated.



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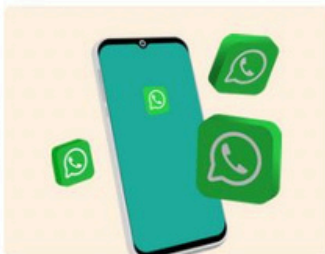
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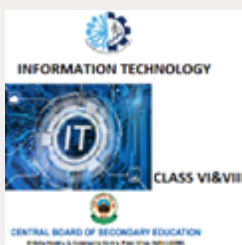
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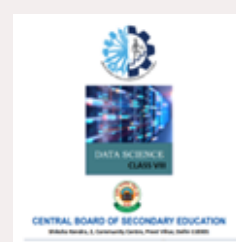
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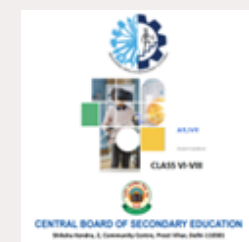
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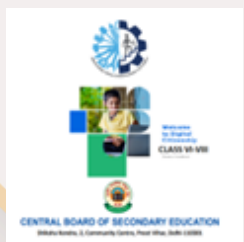
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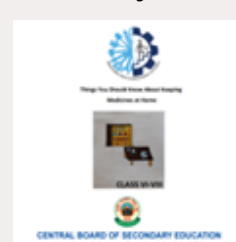
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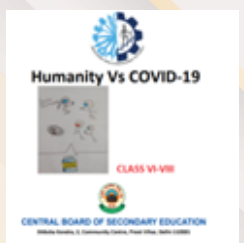
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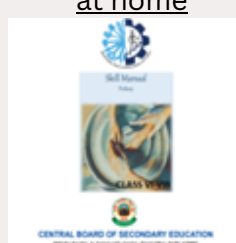
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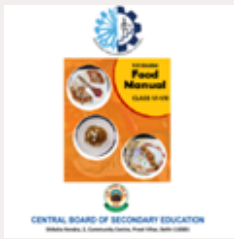
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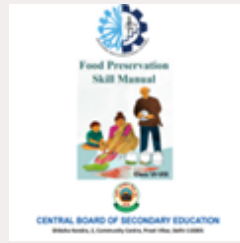
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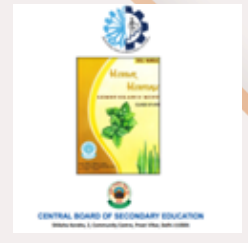
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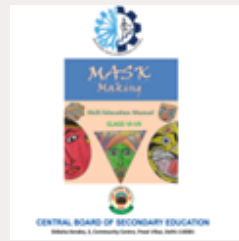
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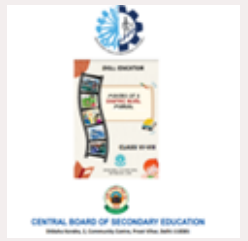
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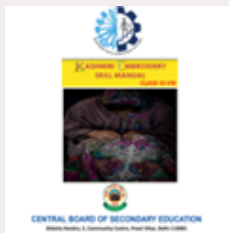
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Mass Media



Making of a Graphic Novel



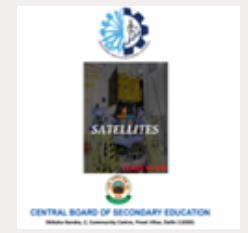
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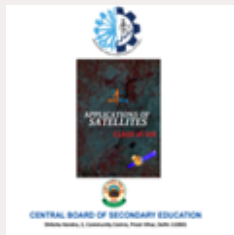
Embroidery



Rockets



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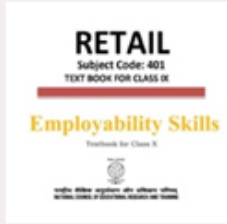


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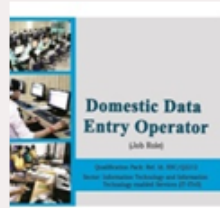


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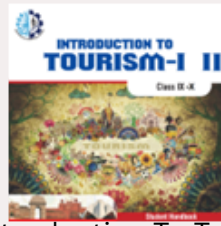
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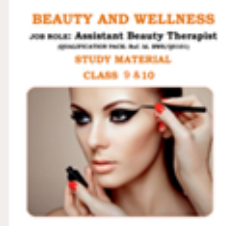
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Introduction To Financial Markets



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Agriculture



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Electronics & Hardware (NEW)

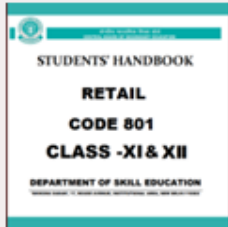


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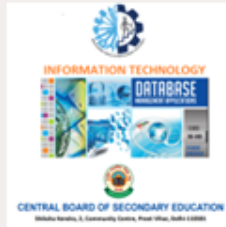


Design Thinking & Innovation (NEW)

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Web Application



Automotive



Financial Markets Management



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Banking



Marketing



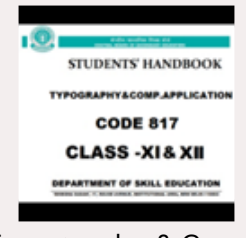
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Insurance



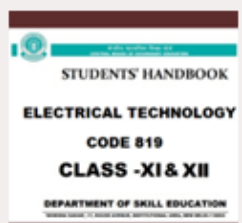
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Application



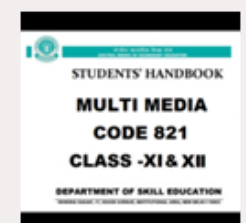
Geospatial Technology



Electrical Technology



Electronic Technology



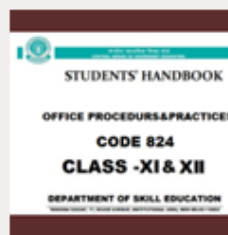
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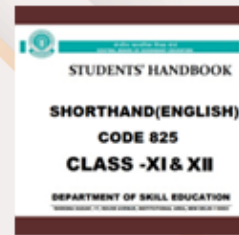
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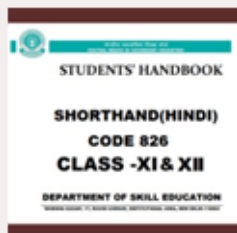
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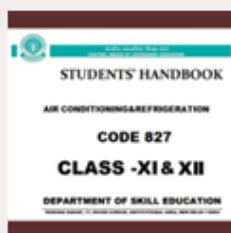
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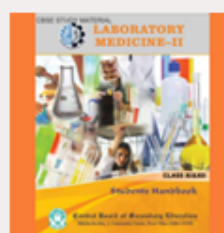
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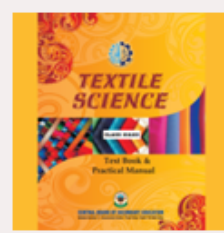
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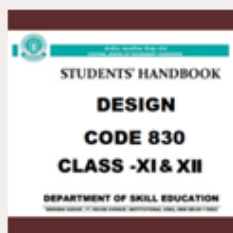
Air-Conditioning & Refrigeration



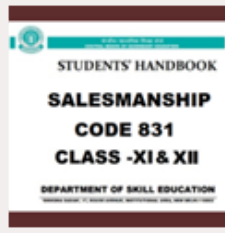
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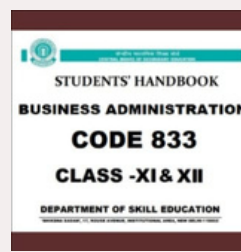
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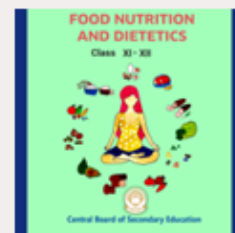
Design



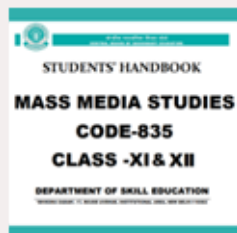
Salesmanship



Business Administration



Food Nutrition & Dietetics



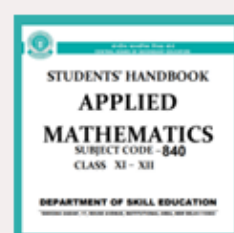
Mass Media Studies



Library & Information Science



Fashion Studies



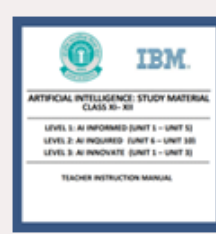
Applied Mathematics



Yoga



Early Childhood Care & Education



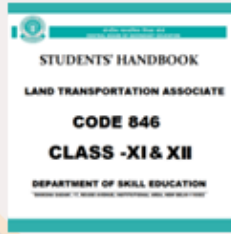
Artificial Intelligence



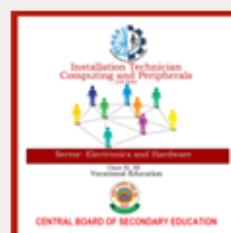
Data Science



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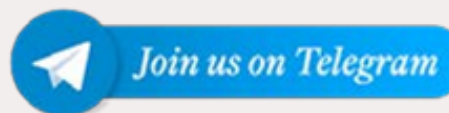
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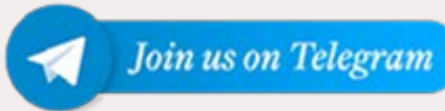
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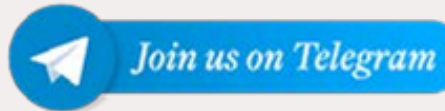
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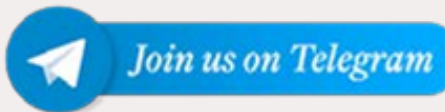
All classes



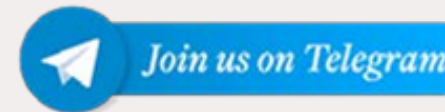
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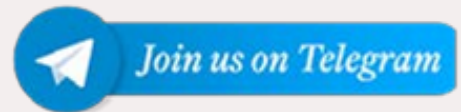
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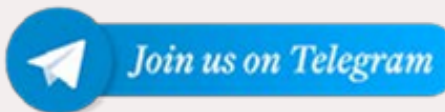
Class 3



Class 4



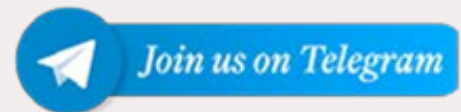
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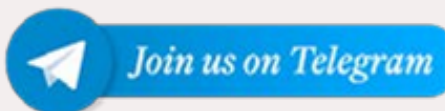
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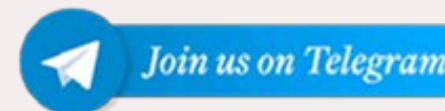
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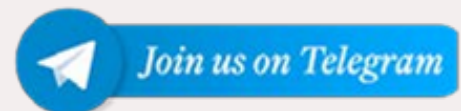
Class 8



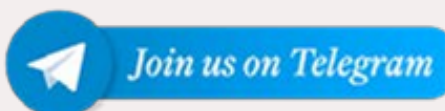
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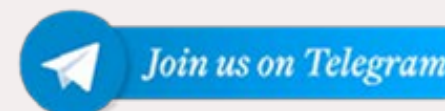
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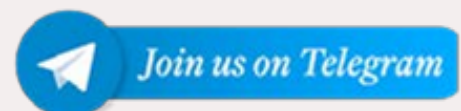
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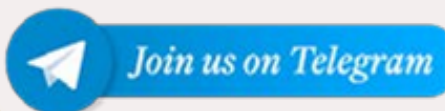
Class 11 (Com)



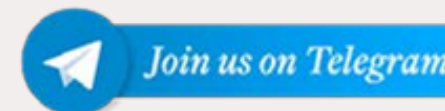
Class 11 (Hum)



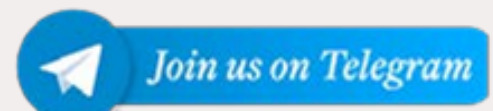
Class 12 (Sci)



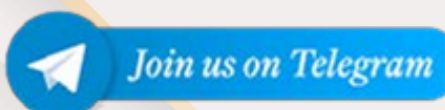
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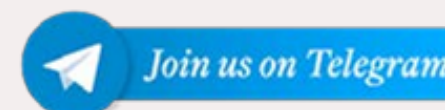
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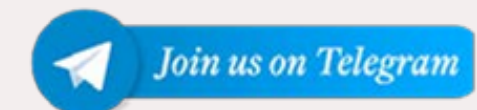
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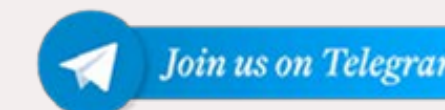
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